

Applicant(s): Van Arendonk, et al.
Serial No.: 09/932,101
Filed: August 17, 2001
For: OPTICAL COMPONENT AND METHOD OF MANUFACTURING SAME
Art Unit: 2839
Examiner: Prasad, Chandrika

NL000473

AMENDMENTS TO THE CLAIMS:

Please amend claims as follows:

1. (currently amended) An optical component comprising:

a first element ~~(1) having~~ with at least one opening and a
light-emission surface ~~(2) and;~~

a second element ~~(3) having~~ with a light-entrance surface ~~(4),;~~
and

a bonding layer ~~(5)~~ interconnecting said elements ~~(1, 3)~~ being
situated between said surfaces ~~(2, 4)~~ ~~characterized in that the,~~

wherein said bonding layer ~~(5)~~ is a transparent layer of
paraffin.
2. (currently amended) ~~An~~ The optical component ~~as claimed~~
~~in of~~ claim 1, ~~characterized in that the~~ wherein said paraffin fills
a capillary space ~~(7)~~.
3. (currently amended) ~~An~~ The optical component ~~as claimed in~~
~~of~~ claim 1, ~~characterized in that the~~ wherein said transparent layer
of paraffin is a solid substance at temperatures below 50°C.
4. (currently amended) ~~An~~ The optical component ~~as claimed in~~
~~of~~ claim 1, ~~characterized in that the~~ wherein said layer of paraffin
has a thickness of maximally 200µm.

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5. (currently amended) ~~An~~ The optical component ~~as claimed in~~ of claim 1, ~~characterized in that the~~ wherein said transparent layer of paraffin and the second element ~~(3)~~ have essentially equal refractive indices at the light-entrance surfaces ~~(4)~~.

6. (currently amended) ~~An~~ The optical component ~~as claimed in~~ of claim 1, ~~characterized in that the~~ wherein said second element ~~(3)~~ is a light-receiving image sensor which, in conjunction with the first element ~~(1)~~, forms an image pick-up device ~~(8)~~.

7. (currently amended) ~~An~~ The optical component ~~as claimed in~~ of claim 6, ~~characterized in that the~~ wherein said first element ~~(1)~~ is a plate ~~(1)~~ accommodating a bundle of fibers ~~(6)~~ which open into the light emission surface ~~(2)~~.

8. (currently amended) A method of manufacturing an optical component comprising a first element ~~(1)~~ having with at least one opening and a light-emission surface ~~(2)~~ and a second element ~~(3)~~ having with a light-entrance surface ~~(4)~~, a bonding layer ~~(5)~~ interconnecting ~~the~~ said elements ~~(1, 3)~~ being situated between said surfaces ~~(2, 4)~~, ~~characterized in that the~~ wherein said first element ~~(1)~~ and ~~the~~ said second element ~~(3)~~ are fitted together by joining ~~the~~ said surfaces ~~(2, 4)~~ so as to form a capillary space ~~(7)~~, which capillary space ~~(7)~~ is filled by making it suck up liquid paraffin, ~~the~~ said paraffin is cooled and solidified so as to form a bonding layer of transparent paraffin ~~(5)~~ in ~~the~~ said capillary space ~~(7)~~.

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9. (currently amended) [A] The method as claimed in of claim 8, characterized in that the wherein said surfaces (2, 4) of the said elements (1, 3) are pressed against each other.

10. (new) The method of claim 8, wherein said opening of said first element enables said light-entrance surface to be close to said light-emission surface.

11. (new) The method of claim 8, wherein one or more walls of said opening may be varied to effectuated accurate adjustment of said bonding layer.

12. (new) The method of claim 8, wherein at least a portion of said second element engages said opening.

13. (new) The optical component of claim 1, wherein said opening of said first element enables said light-entrance surface to be close to said light-emission surface.

14. (new) The optical component of claim 1, wherein said opening has walls that may be varied to effectuated accurate adjustment of said bonding layer.

15. (new) The optical component of claim 1, wherein at least a portion of said second element engages said opening.